



### Claim 1 (CURRENTLY AMENDED)

An electrically powered toothbrush apparatus comprising: a removable and replaceable head with bristles, a neck portion and a handle, the neck portion being engaged with, and removably secured, to abut and directly contact the handle; ~~I~~ and an eccentrically rotational weight engaged for rotation with a motor, ~~I~~ a self supporting, elongate, flexible wire shaft connected to and extending from a motor to a remote end of the toothbrush within the neck, the motor being disposed within the handle and connected to the wire shaft by a drive shaft and flexible coupling; I the I a weight eccentrically mounted I disposed I on the wire shaft I within I at the head and adjacent the bristles I , I to effect rotational and lateral motion therewith at a resonant sonic frequency, the wire shaft being isolated from the neck portion; the remote end of the drive shaft terminating in an anchored bearing adjacent the weight; I the motor disposed within the handle; the head, neck integrally formed; I whereby, the head, neck and weight I having I provide a I natural I resonant[ce]I frequency of vibration approximately matched to the rotational speed of the motor.

**CLEAN COPY OF AMENDED CLAIMS:**

**1. ( CURRENTLY AMENDED )** An electrically powered toothbrush apparatus comprising: a removable and replaceable head with bristles, a neck portion and a handle, the neck portion being engaged with, and removably secured, to abut and directly contact the handle; a self-supporting, elongate, flexible wire shaft connected to and extending from a motor to a remote end of the toothbrush within the neck, the motor being disposed within the handle and connected to the wire shaft by a drive shaft and flexible coupling; a weight eccentrically mounted on the wire shaft at the head and adjacent the bristles to effect rotational and lateral motion therewith at a resonant sonic frequency, the wire shaft being isolated from the neck portion; the remote end of the drive shaft terminating in an anchored bearing adjacent the weight; whereby, the head, neck and weight provide a resonant frequency of vibration approximately matched to the rotational speed of the motor.

**CLAIMS 2 - 5 ( CANCELLED )**

**CLAIM 6 ( ORIGINAL )** The apparatus of claim 1 wherein the bristles are mounted in a removable brush.

**CLAIM 7 ( ORIGINAL )** The apparatus of claim 6 wherein the removable brush is attached to the head by a sliding engagement means.

**CLAIM 8 ( ORIGINAL )** The apparatus of claim 7 wherein the sliding engagement means comprises a first and second mutually joinable engagement elements.

**CLAIM 9 ( ORIGINAL )** The apparatus of claim 7 wherein the removable brush provides a tab.

**CLAIM 10 ( ORIGINAL )** The apparatus of claim 9 wherein the neck provides a tab receiver engageable with the tab of the removable brush for securement of the removable brush on the head.

**CLAIM 11 ( CURRENTLY AMENDED )** The apparatus of claim 1, wherein a center of mass of the head is laterally offset from the drive shaft and wherein the neck and head are flexible so as to oscillate in synchronized rotational motion about a longitudinal axis of the drive shaft as the weight rotates.

**CLAIM 12 ( NEW )** The toothbrush apparatus of claim 1, in which the handle and neck portion are threadably engaged.

**CLAIM 13 ( NEW )** The toothbrush apparatus of claim 1, in which the resonant frequency is 10,000 cpm - 17,500 cpm.

**Claim 1 (CURRENTLY AMENDED)**

An electrically powered toothbrush apparatus comprising: a removable and replaceable head with bristles, a neck portion and a handle, the neck portion being engaged with, and removably secured, to abut and directly contact the handle; ~~I~~ and an eccentrically rotational weight engaged for rotation with a motor, ~~I~~ a self supporting, elongate, flexible wire shaft connected to and extending from a motor to a remote end of the toothbrush within the neck, the motor being disposed within the handle and connected to the wire shaft by a drive shaft and flexible coupling; ~~I~~ the ~~I~~ a weight eccentrically mounted ~~I~~ disposed ~~I~~ on the wire shaft ~~I~~ within ~~I~~ at the head and adjacent the bristles ~~I~~, ~~I~~ to effect rotational and lateral motion therewith at a resonant sonic frequency, the wire shaft being isolated from the neck portion; the remote end of the drive shaft terminating in an anchored bearing adjacent the weight; ~~I~~ the motor disposed within the handle; the head, neck integrally formed; ~~I~~ whereby, the head, neck and weight ~~I~~ having ~~I~~ provide a ~~I~~ natural ~~I~~ resonant~~ice~~ it frequency of vibration approximately matched to the rotational speed of the motor.

**CLEAN COPY OF AMENDED CLAIMS:**

**1. ( CURRENTLY AMENDED )** An electrically powered toothbrush apparatus comprising: a removable and replaceable head with bristles, a neck portion and a handle, the neck portion being engaged with, and removably secured, to abut and directly contact the handle; a self-supporting, elongate, flexible wire shaft connected to and extending from a motor to a remote end of the toothbrush within the neck, the motor being disposed within the handle and connected to the wire shaft by a drive shaft and flexible coupling; a weight eccentrically mounted on the wire shaft at the head and adjacent the bristles to effect rotational and lateral motion therewith at a resonant sonic frequency, the wire shaft being isolated from the neck portion; the remote end of the drive shaft terminating in an anchored bearing adjacent the weight; whereby, the head, neck and weight provide a resonant frequency of vibration approximately matched to the rotational speed of the motor.

**CLAIMS 2 - 5 ( CANCELLED )**

**CLAIM 6 ( ORIGINAL )** The apparatus of claim 1 wherein the bristles are mounted in a removable brush.

**CLAIM 7 ( ORIGINAL )** The apparatus of claim 6 wherein the removable brush is attached to the head by a sliding engagement means.

**CLAIM 8 ( ORIGINAL )** The apparatus of claim 7 wherein the sliding engagement means comprises a first and second mutually joinable engagement elements.

**CLAIM 9 ( ORIGINAL )** The apparatus of claim 7 wherein the removable brush provides a tab.

**CLAIM 10 ( ORIGINAL )** The apparatus of claim 9 wherein the neck provides a tab receiver engageable with the tab of the removable brush for securement of the removable brush on the head.

**CLAIM 11 ( CURRENTLY AMENDED )** The apparatus of claim 1, wherein a center of mass of the head is laterally offset from the drive shaft and wherein the neck and head are flexible so as to oscillate in synchronized rotational motion about a longitudinal axis of the drive shaft as the weight rotates.

**CLAIM 12 ( NEW )** The toothbrush apparatus of claim 1, in which the handle and neck portion are threadably engaged.

**CLAIM 13 ( NEW )** The toothbrush apparatus of claim 1, in which the resonant frequency is 10,000 cpm - 17,500 cpm.